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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/761,512	01/20/2004	Philippe Leyendecker	PF030028	2983

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EXAMINER
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PARRA, OMAR S

ART UNIT	PAPER NUMBER
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2623

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07/21/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/761,512	<b>Applicant(s)</b> LEYENDECKER ET AL.	
	<b>Examiner</b> OMAR PARRA	<b>Art Unit</b> 2623	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 March 2008.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-13 and 15-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 and 15-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### ***Response to Arguments***

1. Applicant's arguments with respect to claims **1-13 and 15-22** have been considered but are moot in view of the new ground(s) of rejection.

Although a new ground of rejection has been used to address additional limitations that have been added to the claims, a response is considered necessary for several of applicant's arguments since the Benardeau reference will continue to be used to meet several claimed limitation.

Applicant argues that "...*Benardeau is silent with respect to the (slave) digital terminal blocking as per the claims 1 and 13. This blocking approach ... is quite different from the approach of Benardeau in which the slave simply cannot do anything without the proper key*" (Remarks, page 8, second paragraph). To this matter, the examiner respectfully disagrees.

Benardeau teaches that the slave device blocks itself from presenting video content given that it is not able to descramble the video content (col. 3 lines 24-29; col. 13 lines 10-33; col. 15 lines 26-32). Even if, as argued by the applicant, the slave blocking is different from Benardeau's blocking, there is no claim language that differentiates it from Benardeau's. Therefore, the examiner still believes that the reference of record still covers the applicant's invention as claimed.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims **1-13 and 15-22** are rejected under 35 U.S.C. 102(b) as being anticipated by Benardeau et al. (hereinafter 'Benardeau', Patent No. 6,904,522, which is of record).

Regarding claims 1 and 13, Benardeau teaches a system for receiving broadcast digital data comprising:

a master digital terminal (**12, Fig. 4; col. 12 lines 46-55**) and at least one slave digital terminal (**50, Fig. 4; col. 12 lines 56-62**) adapted to generally simultaneously receive protected digital data from a transmitter (**col. 8 lines 1-10; col. 12 lines 56-62; col. 13 lines 29-33; col. 14 lines 51-59**), the at least one slave digital terminal being connected to the master terminal by a link (**51, Fig. 4**),

wherein said at least one slave digital terminal blocks **(the slave device blocks itself from presenting video content given that it is not able to descramble the video content, col. 3 lines 24-29; col. 13 lines 10-33; col. 15 lines 26-32)** if information necessary, for accessing said protected digital data and received by the master digital terminal is not received by way of said link by the slave digital terminal within a predetermined deadline (**col. 13 lines 11-38; col. 11 line 54- col. 12 line 8; col. 14 line 48- col. 15 line 32; where the predetermined deadline is the validity**

**period or life of the Kex and/or CW. The master device has to send the CW to the slave before its validity changes. Or, when the CW is sent to the slave, it's encrypted with a Ks- a session key- that's generated by the slave. This key also has a predetermined time, col. 14 lines 16-24. Without the Ks, no encryption would be possible to transmit CW and no reception of the information necessary for accessing the content would be safely received, which goes against the principle of having a safe link).**

Regarding claim 2, Benardeau teaches a system, wherein the information necessary for accessing the protected data which is received by the master digital terminal originates from a data broadcasting system **(41, Fig. 3; col. 11 lines 54-65).**

Regarding claim 3, Benardeau teaches a system wherein said information for accessing the data received by the master digital terminal is transformed before being sent to the slave digital terminal **(col. 3 lines 24-29, lines 52-61; col. 14 line 60-col. 15 line 32).**

Regarding claims 4 and 6, Benardeau teaches a system, in which the transformation comprises a descrambling of said information in the master digital terminal, the descrambling being performed with the aid of keys received beforehand by the master digital terminal of the broadcasting system **(Kex, used to descramble CW**

**is received in advance by terminal 12, col. 13 lines 11-38; col. 14 line 60- col. 15 line 32).**

Regarding claim 5, Benardeau teaches a system, wherein the information necessary for accessing the protected data, which is received by the master digital terminal, originates from the slave digital terminal, is transformed before being resent to the slave digital terminal **(CW can be sent to the master device or originated from the slave for further descrambling at the master and being sent back to the slave, col. 14 line 51- col. 15 line 32).**

Regarding claim 7, Benardeau teaches a system, in which the protected digital data comprise television services scrambled by keys and in which the information necessary for accessing said data belongs to the set comprising:

- a message containing access entitlements to the services for the slave digital terminal **(ECM is sent to slave, and checked by master for slave's rights, col. 9 lines 25-51; col. 14 lines 51-65);**

- a message containing parameters for extracting from the data stream received by the slave digital terminal a message containing access entitlements to the services for the slave digital terminal **(EMM monthly update of Kex, lets decipher the ECM that contains rights of slave and Control Word, col. 11 line 66- col. 12 line 8).**

- a message **(62, Fig.5)** containing partial information **(“KpubT” or 68, Fig. 5, partial information -one of the pair of keys needed to have communication after authentication)** enabling the slave digital terminal to reconstruct its access entitlement to the services **(Without the KpubT, no communication is possible and therefore the reconstruction of access entitlement –ECM- is consequently no possible);**
- a message containing keys for descrambling said protected digital data **(ECM containing Control Word, and EMM containing Kex update, which are used to descramble the protected content, col. 7 lines 3-9 ).**

Regarding claim 8, Benardeau teaches a system in which the predetermined deadline is slave digital terminal counted down from the dispatching by the slave digital terminal of a message to the master digital terminal **(col. 14 lines 16-32).**

Regarding claim 9, Benardeau teaches a system in which the predetermined deadline is counted down from the dispatching by the broadcasting system of the data of a message to the master digital terminal **(It's the broadcasting system which dispatches the Kex for giving rights for a predetermined period of time; therefore, for renewing it, the broadcasting system has to keep track or count down the remaining time of the Kex).**

Regarding claims 10, Benardeau teaches a system , in which the information necessary for accessing the protected data is sent from the master digital terminal to

the slave digital terminal while being protected by enciphering using key shared by the two terminals **(col. 15 lines 4-32)**.

Regarding claim 11, Benardeau teaches a system in which the master digital terminal and slave digital terminal furthermore receive from the data broadcasting system a secret code **(Sprit and KpubT pair of keys, which are respectively received by master and slave, 64 and 68, Fig. 5)** and,

in which the master digital terminal sends said information necessary for accessing the data to the slave terminal only if it receives said secret code from the slave terminal within a second predetermined deadline counting down the receipt of the secret code by the master terminal **(When the CW is sent to the slave, it's encrypted with a Ks- a session key- that's generated by the slave. This key also has a predetermined time, col. 14 lines 16-24. Without the Ks, no encryption would be possible to transmit CW and no reception of the information necessary for accessing the content would be safely received, which goes against the principle of having a safe link)**.

Regarding claim 12, Benardeau teaches a system in which the secret code received by the master digital terminal and by the slave digital terminal is scrambled with the aid of keys sent beforehand to said terminals by the data broadcasting system **(KpubT is encrypted with Ceriman, which is the pair of Clubman received by the slave receiver. The certificate that contains the encrypted KpubT and more, is**



**encrypted using the exploitation key Kex, which is sent to the master device in advance; col. 13 line 53-col. 14 line 15).**

Regarding claims 15 and 16, Benardeau teaches a system wherein the information necessary for accessing said protected data comprises a secret key **(Control Word used to descramble the content is a key, col. 7 lines 3-9; col. 14 line 51- col. 15 line 32).**

Regarding claims 17 and 18, Benardeau teaches a system wherein the protected digital data is received via another link **(col. 12 lines 56-62).**

Regarding claims 19 and 22, Benardeau teaches a system for receiving broadcast digital data, comprising:

a master digital terminal **(12, Fig. 4; col. 12 lines 46-55)** and at least one slave digital terminal **(50, Fig. 4; col. 12 lines 56-62)** adapted to generally simultaneously receive protected data from a transmitter **(col. 8 lines 1-10; col. 12 lines 56-62; col. 13 lines 29-33; col. 14 lines 51-59)**, the at least one slave digital terminal being connected to the master terminal by a link **(51, Fig. 4),**

wherein said slave digital terminal can access said received protected digital data only if information necessary for accessing said protected digital data and received by the master digital terminal is sent by way of said link to the slave digital terminal within a predetermined deadline **(col. 13 lines 11-38; col. 11 line 54- col. 12 line 8; col. 14**

**line 48- col. 15 line 32; where the predetermined deadline is the validity period or life of the Kex and/or CW. The master device has to send the CW to the slave before its validity changes. Or, when the CW is sent to the slave, it's encrypted with a Ks- a session key- that's generated by the slave. This key also has a predetermined time, col. 14 lines 16-24. Without the Ks, no encryption would be possible to transmit CW and no reception of the information necessary for accessing the content would be safely received, which goes against the principle of having a safe link),**

wherein the information necessary for accessing said protected digital data **(The CW sent from the master to the slave device, col. 13 lines 11-38; col. 11 line 54- col. 12 line 8; col. 14 line 48- col. 15 line 32, which is encrypted with the session key Ks)** comprises filter parameters **(anything else not encrypted with the Ks, at that point, is filtered or can not be opened)** for extracting from the data stream received by the slave digital terminal a message containing access entitlements to the services for the slave digital terminal **(Included with the CW, and also encrypted with the Ks, messages of additional data with additional entitlements for the slave device are sent from the master device, col. 15 lines 4-25).**

Regarding claim 20, Benardeau teaches a system, wherein the slave decoder is adapted to erase stored information necessary for accessing said protected digital data upon reception of instructions to do so **(CWs are sent to the slave terminal in a ECM. The CW and ECM are updated or changed frequently at the slave; therefore, the**

**stored CW of the slave is replaced after the reception of the new CW, when the validity of the old CW expired, col. 9 lines 25-51; col. 11 line 48-col. 12 line 5).**

Regarding claim 21, Benardeau teaches a system, wherein the slave decoder is adapted to block by longer accepting the information necessary for accessing said protected digital data from the master decoder **(The decoder that is adapted to block, not being able to display content, can be blocked by longer even if the information necessary for accessing said protected digital data –CW- from the master is accepted. This happens when the Ks is not generated when the content is a pay per view film that has not been paid, col. 14 lines 16-24).**

### ***Conclusion***

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OMAR PARRA whose telephone number is (571)270-1449. The examiner can normally be reached on 9-6 PM (M-F, with every other Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Grant can be reached on 571-272-7294. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

OP

/Christopher Grant/

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Supervisory Patent Examiner, Art Unit 2623